BOOK

ns		Contents	Reference to last Measurement
adth 5	Depth 6	7	8

SBE No: 112/16-17

30/07/16

M. A. R. 57 (Rule 116)

Measurement Book

No. B

BR-394

30-7-16

265519

Serial No. 1st and final Bill

Name of Work ..... From ..... To .....

Name of Contractor of nature of Agency M/s. Ashwathnarayana Contractor.

Date of commencement of work D.O. Recorded 30-07-2016

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of Work	Improvements to CC Road at Murali House behind Road, Somanna's House Road and near Abdulal's House Road in Ward No-11 (Kuvempunagar) Vidyaranyapura Sub-Division					
	Estimated cost	Rs. 30.00 Lakhs					
	Work order no	= EE/BTP/BBMP/E-Proc-07 (13869)/2015-16 Dt. 07.12.2015					
	NB. No	= 011-15-000004.					

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Date of commencement = 08-12-2015 Date of completion = 20-07-2016						
(1)	Earthwork Excavation by manual means in ordinary soil. involving an average horizontal throw upto 20m and an average lift upto 0.300m, Excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.						
			Qty vide this MB P 205581 to no (1) = 324.484 @ 105.84/1				34025.44
(2)	providing and laying in position plain cement concrete						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	of mix 1:4:8 with op... down size graded gr... and fine aggregates @ ... laid in layers not ex... in foundations and plinth,... Hire of machinery ... and directions of Eng...

ENT BOOK

Dimensions			Contents	Reference to last Measurement
gth 4	Breadth 5	Depth 6	7	8
-12-2015				
-07-2016				
ual mean in ordinary				
ng mtd throw upto 2m				
m, excavated surface				
sed, the disposed earth				
eq of leads complete as				
y vide this SMB. P 265581				34025.44
It no ① = 324.484 m³ @ 105.84/-				
ing plain cement concrete				

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265520

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	of mix 1:4:8 with opc cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85 m³ and fine aggregates @ 0.57 m³ machine mixed concrete, laid in layers not exceeding 15cms thick well compacted. in foundations and plinth, including cost of all materials labour hire of machinery curing etc complete as per specifications and directions of Engineer-in-charge of work						
	Qty vide this SMB. P. 265584						
	It no. ② = 278.014 m³ @ 4307.40/m³						1197500.0

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(3) Providing and Constructing granite/trap/ Basalt size stone masonry in superstructure with c.m 1:6 edges of stones chisel dressed in courses not less than 15cms high and Stretch 2ms apart in each course including centage materials, labours, centage etc complete as per specifications and directions of Engineer-in-charge of work.						
	Raghavan Layout CD1	2	8.70	0.60	1.00 =	6.84	
	—— CD2 & CD3.	2×2	4.40	0.60	1.00 =	10.56	
	Singapura Main CD4 Extension Road	2	6.20	0.60	1.00 =	7.44	
						24.84 m³	118576.22
					@	4773.60/m³	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
(4)	Providing Ruled pointing c.m 1:4, 20mm deep of 20mm nicely finishing in complete as per specifications direction of Engineer- CD1 CD2 & CD3 CD4

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

OOK

dth	Depth 6	Contents 7	Reference to last Measurement 8
		Breadth size stone	
		edges of stones	
		stones high bond	
		including cutting	
		as per specifications	
		whole.	
0	1.00 =	6.84	
0	1.00 =	10.56	
0	1.00 =	7.44	
		24.84 m³	118576.22
		@ 4773.60/-	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265521

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	(4) Providing Ruled pointing to coursed stone masonry with C.M 1:4, 20mm deep after Raking the joints to Depth of 20mm nicely lining including costings materials labour etc Complete as per specifications to extents, and as per the direction of Engineer-In-charge of whole.						
	CD1	2	5.70	-	0.90 =	10.26 m²	
	CD2 & CD3	2+2	4.40	-	0.90 =	15.84	
	CD4	2	6.20	-	0.90 =	11.16	
						37.26 m²	
					Add	36.80 m²	3418.40
						@ 92.88/- m²	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(5)	Providing and Laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregate @ 0.878 m^3 and fine aggregate @ 0.459 m^3, machine mixed concrete laid in layers not exceeding 15 cms thick well compacted in foundations, plinth and Cills, including cost of all materials, labours, hire of machinery, curing etc complete as per specifications and directions of Engineer-in-charge of work.						
	copy cost	1	5.70	1.80	0.10 =	1.03	
		2+1	4.40	1.80	0.10 =	1.58	
		1	6.20	1.80	0.10 =	1.12	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Ramp
(6)	Providing and Laying R... mix M.20 with ope... and down size grad... @ 0.878 m^3 and fine

Assistant Executive E...
Vidyaranyapura Sub ...
BBMP, Bangalore

OOK

dth	Depth 6	Contents 7	Reference to last Measurement 8
		nent Concrete of	
		down and done	
		gates @ 0.878 y^3	
		mixed concrete	
		well compacted	
		cost of all	
		., curing etc complete	
		Engineer-in-	
		0 to = 1.03	
		0 to = 1.58	
		0 to = 1.12	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265522

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Ramp	2 nos	5.70	0.90	0.15 =	1.54	
		2 nos	4.40	0.90	0.15 =	2.38	
		2 nos	6.20	0.90	0.15 =	3.35	
						10.99 m^3	
					Ltd to	10.35 m^3	
						@ 5327.64/ m^3	55149.00
(1)	Providing and laying in position reinforced c.c of design mix M.20 with OPC cement @ 320 kgs with 20mm and down size graded granite metal coarse aggregate @ 0.878 m^3 and fine aggregate @ 0.459 m^3 with super						

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Vidyaranyapura Sub Division
BBMP, Bangalore-97

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	plasticizer @ 3 lts confirming to IS-9103-1999 re-affirmed 2008, machine mixed concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundations plinth and ground floor level for R.C.C. slabs, staircase, lintels retaining walls, including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping bed blocks, anchor blocks, plinth Window sills, grills etc including centring all materials, labour charges of machinery, curing etc complete as per specifications and directions of Engineer-in-charge of Works.						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	for Deck Slab RD1 CD2 CD3 CD4
②	Providing BBMP Bangalore mild steel including straightening in position, lapping

Assistant Executive E
Vidyaranyapura Sub

T BOOK

nsions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
		9103 - 1999 RE-AFTERWARD	
		d in layers not exceed	
		ls in foundations plinth	
		bs, staircase, lintels	
		lanters, columns, piers,	
		ers, storey or lacy	
		s, anchor blocks, plain	
		costing all materials,	
		ing etc complete as	
		ed by Engineer-in-	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

265523

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	2	Number 3	Length 4	Breadth 5	Depth 6	7	8
	for Deck Slab						
		RD1 1	5.70	1.80	0.20	2.564	
		CD2 1	4.40	1.80	0.25	1.98	
		CD3 1	4.40	1.80	0.25	1.98	
		CD4 1	6.20	1.95	0.25	3.07	
						9.594	
					Ltd Lo	9.524	5774 Lo
						@ 60 / 65.28 /q	
(7)	Providing mild steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position, lapping or welding wherever required, tying						

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	With binding Wire and anchoring to the adjoining members wherever necessary Complete as per design, costing materials, labour Hire of machinery etc complete as per specifications and directions of Engineer-in-charge of work.						
						Qty vide this MB p. 265 to 86	
						It (4) = 8.57 Qtls @ 7975.80/Qty	68352.67
(8)	Providing and removing centering, shuttering, strutting, propping etc and removal of from work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses, costing						

M. A
M

Serial No. .....
Name of Work ..... Fro
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Numb
1	2	3
	all materials, labour etc and directions of Engineer-	
(9)	Providing and laying in po of mix M.20 with ope and down Size graded a @ 0.64 m³ as per fine aggr	

BOOK

ions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
		the adjoining members designs, costings ny etc complete as ngineer-in-charge of de this MB p. 265586 8.57 @ Rs 7975.80/Qty 68352.67 uthing, strutting, propping n vertical surfaces cluding attached ng courses, costings	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

265524

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	all materials, labours etc complete as per specifications and directions of Engineer-in-charge of the work Qty vide this MB p. 265586 as ③ = 27.694 m² @ 292.68/m²						8104.31
	⑨ Providing and laying in position plain cement concrete of mix M.20 with OPC cement @ 300 kg/m³ with 20mm and down size graded granite metal coarse aggregate @ 0.6 m³ and fine aggregate @ 0.4 m³ with superplasti						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Riser @ 3½" conforming to IS:9103-1999 Re-affirmed 2008, machine mixed concrete laid in layers not exceeding 15cms thick well compacted in foundations, plinth and Cills, including casting all materials, labour, tools, machinery, curing etc complete as per specifications of directions of Engineer-in-charge of Work.						
	C.C. Road near Anjaneya Temple						
(a)	2nd main - 1st Cross	1	32.20	3.3+3.4/2	0.10	11.11	
(b)	4th Cross	1	29.40	4.70	0.10	13.63	
(c)	5th Cross	1	27.40	4.7+5.0/2	0.10	13.10	
(d)	2nd main - 2nd Cross-Rb	1	3.20	4.30	0.10	0.90	

Executive Engineer
Byatarayanapura Division
Yelahanka Zone, B.B.M.P.
Bangalore - 560 092

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Checked. 30/7
	Executive Engineer Byatarayanapura Division Yelahanka Zone, B.B.M.P. Bangalore - 560 092
(e)	3rd main - 1st Cross Rb
(f)	" 2nd Cross-Rb
(g)	" 3rd Cr - Rb

T BOOK

nsions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
103-	1999	Re-affirmed	
d in layers not exceedg			
ndering, plinth and			
, labour, scaffolding			
per specifications of			
ty Works.			
$\frac{3.3+3.1}{2}$	0.10 =	11.11	
4.70	0.10 ×	13.63	
$\frac{4.7+5.0}{2}$	0.10	13.10	
4.30	0.10 ×	0.90	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265525

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Checked. 30/7 Executive Engineer Byatarayanapura Division Yelahanka Zone, B.B.M.P. Bangalore - 560 092	1	3.90	1.50	0.10 =	0.59	
		1	4.70	1.10	0.10 ×	0.52	
		1	3.50	2.10	0.10 =	0.74	
		1	15.40	$\frac{3.9+3.3}{2}$	0.10 =	5.40	
		1	14.10	$\frac{3.3+2.9}{2}$	0.10 =	5.30	
	(1) - 3rd main 2nd Cross R/b	1	21.10	$\frac{2.5+4.0}{2}$	0.10 ×	6.86	
	(1) —"— 2nd Cross-R/b	1	21.70	3.10	0.10 =	6.73	
	(1) —"— 3rd CR - R/b	1	30.40	$\frac{3.0+2.9}{2}$	0.10	8.85	
		1	15.40	$\frac{2.9+3.3}{2}$	0.10 =	4.65	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	17.20	$\frac{3.7+3.0}{2}$	0.10	5.42	
(h)	3rd main 2nd Cross. 4)	1	21.50	$\frac{4.3+3.5}{2}$	0.10	10.11	
(i)	Interior - Roads	1	30.70	$\frac{2.1+2.2}{2}$	0.10	6.60	
		1	23.60	2.90	0.10	6.84	
		1	11.80	$\frac{1.9+2.8}{2}$	0.10	2.60	
		1	5.40	$\frac{1.6+1.8}{2}$	0.10	0.38	
		1	18.40	$\frac{3.1+2.9}{2}$	0.10	5.40	
		1	30.40	$\frac{3.9+3.8}{2}$	0.10	11.10	
		1	21.20	$\frac{3.5+3.4}{2}$	0.10	9.04	
		1	31.40	$\frac{3.7+3.3}{2}$	0.10	10.54	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	(j) 4th main Road (Interior Road)
	(10) Vacuum Dewatering [illegible] Mat and Compacti[illegible] floating slide includ[illegible]

Assistant Executive E[illegible]
Vidyaranyapura Sub
BBMP, Bangalo[illegible]

ENT BOOK

Dimensions			Contents	Reference to last Measurement
gth	Breadth 5	Depth 6	7	8
20	$\frac{3.2+3.0}{2}$	0.10	5.424	
50	$\frac{4.3+3.5}{2}$	0.10	10.11	
.70	$\frac{2.1+2.2}{2}$	0.10	6.60	
.60	2.90	0.10	6.84	
.80	$\frac{1.9+2.3}{2}$	0.10	2.60	
.50	$\frac{1.6+1.9}{2}$	0.10	0.38	
8.00	$\frac{3.1+2.9}{2}$	0.10	5.40	
0.00	$\frac{3.2+3.8}{2}$	0.10	11.10	
1.20	$\frac{3.5+3.4}{2}$	0.10	9.04	
31.00	$\frac{3.7+3.1}{2}$	0.10	10.54	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 265526

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	9) 4th main Road (Interior Road)	1	30.00	3.10	0.10	9.30	
		1	25.30	3.10	0.10	7.84	
		1	30.00	$\frac{3.8+3.3}{2}$	0.10	11.33	
		1	24.30	$\frac{3.35+4.2}{2}$	0.10	9.61	
						184.9545	
					Ldd to	181.2043	1060477.00
					e	5852.52/43	
	10) Vacuum Dewatering with vacuum pump and suction mat and compaction with skin floater clubbed with floating dise including costof generator Hom of						

C&T
Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

OK

Depth 6	Contents 7	Reference to last Measurement 8
2.50 / 2 =	205.96	
1.50 / 2 =	7.70	
2.90 / 2 =	54.40	
3.50 / 2 =	111.40	
3.40 / 2 =	90.39	
3.10 / 2 =	105.40	
=	93.60	
=	78.43	
3.75 =	111.25	
4.20 / 2 =	96.59	
	1849.47 42	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

265528

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
			Ltd to =		1812.60 m²	@ 97.20/m²	176126.40
11)	Providing groove cutting for cement pavement 5mm to 10mm and depth 200 mm - 100mm including cost of cutting machine, generator and transportation of machinery, including cost of blade, coolant, etc including cleaning of labour, lead and lift charges and all other incidental charges as per drawing and all complete as per Specifications and directions of Engineer-in-charge of the work.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		7×1	4.00	-	-	28.00	
		7×1	3.50	-	-	24.50	
		2×1	2.00	-	-	4.00	
		4×1	3.00	-	-	12.00	
		2×1	4.50	-	-	9.00	
		2×1	3.00	-	-	6.00	
		6×1	3.50	-	-	21.00	
		8×1	3.20	-	-	25.60	
		6×1	3.30	-	-	19.80	
		3×1	2.50	-	-	7.50	
		3×1	2.20	-	-	6.60	
		2×1	3.00	-	-	6.00	
		4×1	3.20	-	-	12.80	
						182.80	
					Less	181.50	
					0	124.20	22542-30

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Serial No. .....
Name of Work .....
Name of Contractor of natu
Date of commencement of

Date	Full description,
1	2
12	Lead for c carriage t and unloa direction

BOOK

ons		Contents	Reference to last Measurement
readth 5	Depth 6	7	8
-	-	28.00 m²	
-	-	24.50	
-	-	4.00	
-	-	12.00	
-	-	9.00	
-	-	6.00	
-	-	21.00	
-	-	25.60	
-	-	19.80	
-	-	7.50	
-	-	6.60	
-	-	6.00	
-	-	12.80	
		182.80 m²	
Ld to		181.50 m².	
C		124.20 @ Rs 22542.30	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

265529

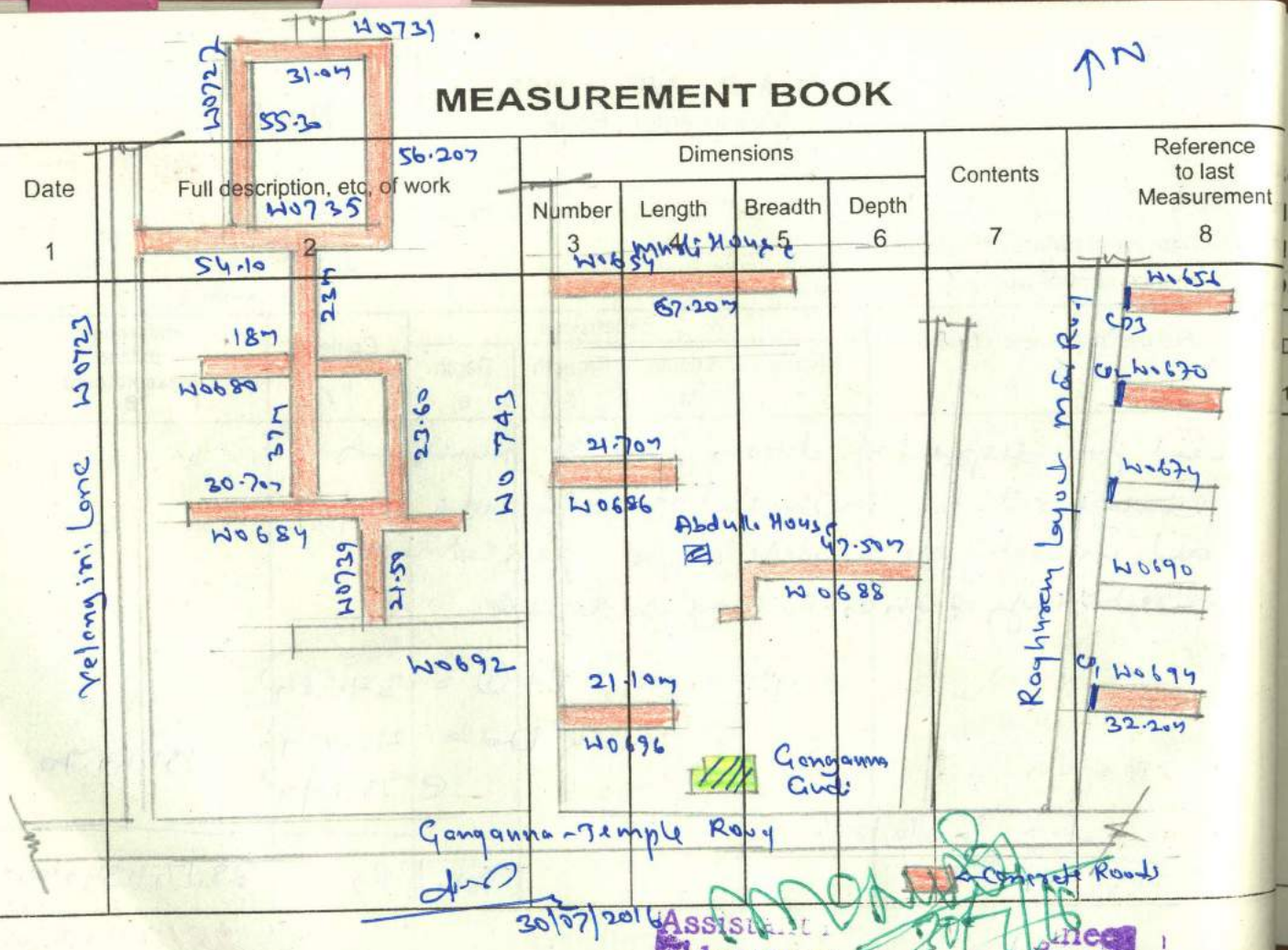
Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	12) Lead for disposal of debris shall be payable as carriage rates by mechanical means including loading and unloading etc complete as per specifications and direction of Engineer-in-charge of the works.						
						qty as per item no ① =	321.40 m³
						Ld to	210.00 m
						C	73.57 @ Rs 15449.70
	A-6 / W-11 30/07/2016					Total Rs	28,17,454.40

2817454.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



Assistant Commissioner
Vidyaranyapura Division

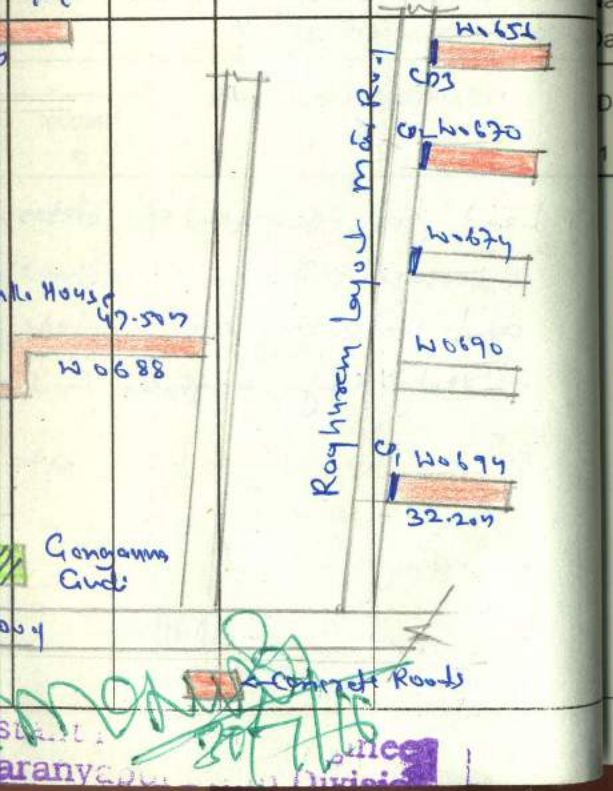
Serial No. .....
Name of Work .....
Name of Cont... ...ure of Agenc...
Date of comm... ...f work .....

Date	Full description, etc, of work
1	2

Audited & Ad...
2...
262...
and Rs ...
Accts Sub...
Byatarayanapu...
BBMP

T BOOK

nsions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8



M. A. R. 57 (Rule 116)
Measurement Book

No. B

265530

Serial No. .....
Name of Work ..... From..... To.....
Name of Cont... ...ure of Agency .....
Date of comm... ...f work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

Audited & Admitted for Rs
2817450-00
26274946-
and Rs 19250/-
Accts Supdt
Bydarahalli Division
BBMP

Audited & Admitted for Rs
Executive Engineer
Bydarahalli Division
BBMP.

25/8

IT - 25200-00
VAT - 159700-00
CF - 2820-00
OBF - 2820-00
LR - 20584-
Debited 19250/-